

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	09/462,171
Filing Date	July 14, 1998
First Named Inventor	Braun
Art Unit	2815
Examiner Name	Jerome Jackson
Attorney Docket Number	I.8363.0001/P001

Sheet 1 of 5

**U.S. PATENT DOCUMENTS**

Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-4,314,821	02/09/1982	Rice	
	2	US-4,822,566	04/18/1989	Newman	
	3	US-5,284,748	02/08/1994	Mroczkowski et al.	
	4	US-5,312,527	05/17/1994	Mikkelsen et al.	
	5	US-5,563,424	10/08/1996	Yang et al.	
	6	US-5,914,505	06/22/1999	Hisada et al.	
	7	US-5,445,934	08/29/1995	Fodor et al.	
	8	US-5,653,959	08/05/1997	Hollis et al.	
	9	US-5,787,332	07/28/1998	Heller et al.	
	10	US-6,093,370	07/25/2000	Yasuda et al.	
	11	US-5,739,308	04/14/1998	Kandimalla et al.	
	12	US-5,770,369	06/23/1998	Meade et al.	
	13	US-5,824,473	10/20/1998	Meade et al.	
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	19	US-5,837,546	11/17/1998	Allen et al.	
	20	US-5,891,630	04/06/1999	Eggers et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	21	JP 04-148669	05/21/1992			✓
	22	WO 90/05300	05/17/1990			
	23	WO 97/44651	11/27/1997			
	24	EP 0 444 840 A1	09/04/1991			
	25	EP 0 364 208 A1	04/18/1990			
	26	WO 99/35256	07/15/1999			
	27	WO 99/36573	07/22/1999			
	28	WO 99/29711	06/17/1999			
	29	WO 99/57550	11/11/1999			
	30	WO 00/25136	05/04/2000			

Examiner Signature	<i>John</i>	Date Considered	10/03
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Sheet	3	of	5	Application Number	09/462,171
				Filing Date	July 14, 1998
				First Named Inventor	Braun
				Group Art Unit	2815
				Examiner Name	Jerome Jackson
				Attorney Docket Number	18363.0001/P001

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>3</sup>
	37	Size, <u>Physics of Semiconductor Devices</u> , 2 <sup>nd</sup> Ed., pgs. 349, 490-495 (date unknown)	
	38	Klein et al., "An Approach to Electrical Studies of Single Nanocrystals," <u>Appl. Phys. Lett.</u> , 68(18):2574-2576 (1996)	
	39	Sato et al., "Single Electron Transistor Using a Molecularly Linked Gold Colloidal Particle Chain," <u>J. Appl. Phys.</u> , 82(2):696-701 (1997)	
	40	Grabar et al., "Kinetic Control of Interparticle Spacing in Au Colloid-Based Surfaces: Rational Nanometer-Scale Architecture," <u>J. Am. Chem. Soc.</u> , 118:1148-1153 (1996)	
	41	Chen et al., "Synthesis from DNA of a Molecule with the Connectivity of a Cube," <u>Nature</u> , 350:631-633 (1991)	
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	44	Kastner, "The Single-Electron Transistor," <u>Reviews of Modern Physics</u> , 64(3):849-858 (1992)	
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	48	Langer et al., "Quantum Transport in a Multiwalled Carbon Nanotube," <u>Physical Review Letters</u> , 76(3):479-482 (1996)	
	49	Bensimon et al., "Stretching DNA with a Receding Meniscus: Experiments and Models," <u>Physical Review Letters</u> , 74(23):4754-4757 (1995)	
	50	Bensimon et al., "Alignment and Sensitive Detection of DNA by a Moving Interface," <u>Science</u> , 265:2096-2098 (1994)	
	51	Wirtz, "Direct Measurement of the Transport Properties of a Single DNA Molecule," <u>Physical Review Letters</u> , 75(12):2436-2439 (1995)	

Examiner Signature	<i>Jerome Jackson</i>	Date Considered	10/03
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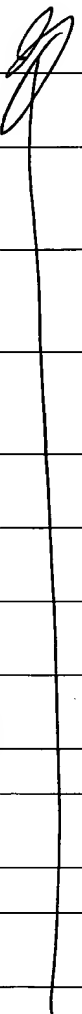
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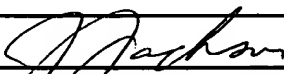
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First Named Inventor	Braun
Group Art Unit	2815
Examiner Name	Jerome Jackson
Attorney Docket Number	T8363.0001/P001

Sheet 4 of 5

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	52	Zimmermann et al., "DNA Stretching on Functionalized Gold Surfaces," <u>Nucleic Acids Res.</u> , 22(3):492-497 (1994)	
	53	Barton, "Metal/Nucleic-Acid Interactions," in Bertini, eds., <u>Bioinorganic Chemistry</u> , Sausalito, California:University Science Books, pp. 455-503 (1994)	
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<b>Group Art Unit</b>	2815
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Sheet	5	of	5
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